Physica C 198 (1992) 397–400
North-Holland

PHYSICA C

Author Index to Volume 198

Alexandrov, A.S. and J. Ranninger, Photoemission spectroscopy of the superconducting and normal state for polaronic systems **198**, 360
Amano, J., see A. Tsukamoto **198**, 355
Angel, R.J., see R.S. Liu **198**, 203
Aoki, H., S. Uji, T. Shimizu and Y. Ōnuki, dHvA effect of Nb in low fields down to H_{c2}. Comment on the dHvA effect in the superconducting mixed state **198**, 323

Baggio Saitovitch, E., see D.E. Ellis **198**, 57
Bagratashvili, V., see A. Zherikhin **198**, 341
Barber, Z.H., see B. Ghyselen **198**, 215
Bauminger, E.R., see I. Felner **198**, 14
Behner, H., see W. Rauch **198**, 389
Ben Assayag, G., see B. Ghyselen **198**, 215
Blanchin, M.G., see Y. Yan **198**, 147
Blander, M., see M. Tetenbaum **198**, 109
Boekholt, M., Th. Bollmeier, L. Buschmann, M. Fleuster and G. Güntherodt, Structural and superconducting properties of $Bi_2Sr_2Ca(Cu_{1-y}Co_y)_2O_{8+\delta}$ single crystals **198**, 33
Bollmeier, Th., see M. Boekholt **198**, 33
Bräuchle, G., see H. Claus **198**, 42
Braun, M., see H. Claus **198**, 42
Brisson, C., see J.M. Dance **198**, 185
Brown, D.L., see M. Tetenbaum **198**, 109
Burimov, V., see A. Zherikhin **198**, 341
Buschmann, L., see M. Boekholt **198**, 33

Cabanel, R., see B. Ghyselen **198**, 215
Carlos, W.E., R. Kaplan, D.H. Lowndes and D.P. Norton, Microwave properties of $YBa_2Cu_3O_{7-\delta}/PrBa_2Cu_3O_{7-\delta}$ superlattices **198**, 247
Cava, R.J., H.W. Zandbergen, J.J. Krajewski, W.F. Peck Jr., B. Hessen, R.B. Van Dover and S.-W. Cheong, $Sr_2(Nd,Ce)_2MCu_2O_9$, M=Al, Co, Ga. A new layered copper oxide structure type **198**, 27
Chaddah, P., see S.B. Roy **198**, 383
Chen, B.-J., M.A. Rodriguez, S.T. Misture and R.L. Snyder, Direct observation of textured $YBa_2Cu_3O_{7-\delta}$ crystal growth from the melt **198**, 118
Chen, S.K., see S. Jin **198**, 333
Cheong, S.-W., see R.J. Cava **198**, 27
Chevalier, B., see J.M. Dance **198**, 185
Christen, D.K., see H.R. Kerchner **198**, 75
Chu, C.W., see Q. Xiong **198**, 70
Chu, J.W., see Q. Xiong **198**, 70
Chu, W.K., see Y.J. Zhao **198**, 256
Cichorek, T., see Z. Henkie **198**, 162
Claus, H., M. Braun, A. Erb, K. Röhberg, B. Runtsch, H. Wühl, G. Bräuchle, P. Schweib, G. Müller-Vogt and H. v. Löhneysen, The "90 K" plateau of oxygen deficient $YBa_2Cu_3O_{7-\delta}$ single crystals **198**, 42
Cohen, M.L., see N. Kijima **198**, 309
Corkill, J.L., see N. Kijima **198**, 309
Coulter, J.Y., see K.V. Salazar **198**, 303
Crété, D.G., see B. Ghyselen **198**, 215

Dance, J.M., A. Tressaud, B. Chevalier, C. Brisson and J. Etourneau, ESR study of La_2CuO_4-derived superconductors treated under halogen gas **198**, 185
De la Fuente, G.F., see E. Snoeck **198**, 129
De Leeuw, D.M., see J.J. Scholtz **198**, 231
Drillon, M., see A. Tighezza **198**, 209
Dye, R.C., see K.V. Salazar **198**, 303

Edelman, H.S., see A. Umezawa **198**, 261
Edwards, P.P., see R.S. Liu **198**, 203
Edwards, P.P., see R. Liu **198**, 318
Ehmann, A., S. Kemmler-Sack, S. Lösch, M. Schlichenmaier, W. Wischert, P. Zoller, T. Nissel and R.P. Huebener, New family of superconducting copper oxides. Bi cuprates of type 1212 **198**, 1
Eick, H.A., see E. Hodorowicz **198**, 19
El-Abbar, A.A., P.J. King, K.J. Maxwell, J.R. Owers-Bradley and W.B. Roys, The irreversibility line in polycrystalline $YBa_2Cu_3O_7$ superconductors with Y_2BaCuO_5 inclusions **198**, 81
Eliashberg, G.M., see S.I. Vedeneev **198**, 47
Ellis, D.E., E. Baggio Saitovitch and D.J. Lam, Hyperfine interactions in iron substituted high-T_c superconducting oxides **198**, 57
Erb, A., see H. Claus **198**, 42
Etourneau, J., see J.M. Dance **198**, 185
Evetts, J.E., see B. Ghyselen **198**, 215

Felner, I., U. Yaron, I. Nowik and E.R. Bauminger, New magnetic phases in the La–Sr–Cu–O system **198**, 14
Feng, H.H., see Q. Xiong **198**, 70
Feng, Y., see A. Umezawa **198**, 261
Fleshler, S., see A. Umezawa **198**, 261
Fleuster, M., see M. Boekholt **198**, 33
Fox, F., see W. Rauch **198**, 389
Freyhardt, H.C., see M. Ullrich **198**, 181
Fujiwara, Y., see Y. Ueda **198**, 237
Fukuda, Y., see D. Pooke **198**, 349
Funahashi, S., see Y. Miyazaki **198**, 7

Gaponov, S.V., see O.I. Lebedev **198**, 278
Ghyselen, B., R. Cabanel, S. Tyc, D.G. Crété, Z.H. Barber, J.E. Evetts, G. Ben Assayag, J. Gierak and A. Schuhl,

YBaCuO/normal metal/YBaCuO proximity effect junctions **198**, 215
Gierak, J., see B. Ghyselen **198**, 215
Gieres, G., see W. Rauch **198**, 389
Gornik, E., see W. Rauch **198**, 389
Griessen, R., see J.J. Scholtz **198**, 231
Grigoryan, L.S., R. Kumar, S.K. Malik, R. Vijayaraghavan and A.R. Harutyunyan, Effect of benzene intercalation on magnetization of Bi-oxides **198**, 137
Gronsky, R., see N. Kijima **198**, 309
Güntherodt, G., see M. Boekholt **198**, 33

Hackwell, T.P., see R.S. Liu **198**, 203
Hamet, J.F., B. Mercey, M. Hervieu, G. Poullain and B. Raveau, ↑a-Axis oriented superconductive YBCO thin films. Growth mechanism on MgO substrate **198**, 293
Harutyunyan, A.R., see L.S. Grigoryan **198**, 137
Hayashi, A., see Y. Ueda **198**, 237
Heinemann, K., see M. Ullrich **198**, 181
Hellstrom, E.E., see A. Umezawa **198**, 261
Henkie, Z., T. Cichorek, R. Horyń and A. Wojakowski, The effect of isoelectronic cation substitution and deoxygenation of $Bi_8Sr_{8-x}Ca_{4+x}Cu_9O_{33+E-\delta}$ superconductors on the thermopower and resistivity **198**, 162
Hervieu, M., see J.F. Hamet **198**, 293
Hessen, B., see R.J. Cava **198**, 27
High, Y.E., see A. Umezawa **198**, 261
Himmerich, B., see M. Mittag **198**, 222
Hiraga, K., see Y. Miyazaki **198**, 7
Hirai, T., see Y. Miyazaki **198**, 7
Hirai, T., see Y. Miyazaki **198**, 53
Hiratani, M., see A. Tsukamoto **198**, 355
Hodorowicz, E., S.A. Hodorowicz and H.A. Eick, The Ln–Ba–Cu "184" oxide phase. Characterization, synthesis mechanism, and solid solubility limits in air for selected Ln **198**, 19
Hodorowicz, S.A., see E. Hodorowicz **198**, 19
Hor, P.H., see Q. Xiong **198**, 70
Horyń, R., see Z. Henkie **198**, 162
Hou, J., see N. Kijima **198**, 309
Hu, S.F., see R. Liu **198**, 318
Huang, Y., see E. Snoeck **198**, 129
Huang, Y.T., see M.-J. Tsai **198**, 125
Hubbard, K.M., see K.V. Salazar **198**, 303
Huber, J.G., see A.R. Moodenbaugh **198**, 103
Huebener, R.P., see A. Ehmann **198**, 1
Hughes, S.D., see R.S. Liu **198**, 203

Ivanov, M.A., Y.G. Pogorelov and V.M. Loktev, Magnetic centres from excess oxygen in $Yba_2Cu_3O_{6+x}$ **198**, 171

Jansen, A.G.M., see S.I. Vedeneev **198**, 47
Jefferson, D.A., see R. Liu **198**, 318
Jin, S., G.W. Kammlott, T.H. Tiefel and S.K. Chen, Formation of layered microstructure in the Y–Ba–Cu–O and Bi–Sr–Ca–Cu–O superconductors **198**, 333

Kajitani, T., see Y. Miyazaki **198**, 7
Kammlott, G.W., see S. Jin **198**, 333
Kaplan, R., see W.E. Carlos **198**, 247
Kawai, S., see T. Matsumoto **198**, 273
Kawai, T., see T. Matsumoto **198**, 273
Kemmler-Sack, S., see A. Ehmann **198**, 1
Kemmler-Sack, S., see M. Schlichenmaier **198**, 175
Kerchner, H.R., D.K. Christen, C.E. Klabunde, J.O. Thomson, Y.R. Sun and J.R. Thompson, Evidence of Kosterlitz–Thouless transition in $YBa_2Cu_3O_7/PrBa_2Cu_3O_7$ superlattice films **198**, 75
Kijima, N., R. Gronsky, X.-D. Xiang, W.A. Vareka, J. Hou, A. Zettl, J.L. Corkill and M.L. Cohen, Structural properties of stage-1 iodine-intercalated superconducting $I(Bi_{0.915}, Pb_{0.085})_2(Sr_{0.93}, Pb_{0.07})_2(Ca_{0.965}, Pb_{0.035})_2Cu_3O_x$ **198**, 309
King, P.J., see A.A. El-Abbar **198**, 81
Kiselev, N.A., see O.I. Lebedev **198**, 278
Kishio, K., see D. Pooke **198**, 349
Kitahama, K., see T. Matsumoto **198**, 273
Kitazawa, K., see D. Pooke **198**, 349
Klabunde, C.E., see H.R. Kerchner **198**, 75
Kodas, T.T., see K.V. Salazar **198**, 303
Koga, T., see D. Pooke **198**, 349
Koshelev, A.E., Numerical simulation of thermal depinning for a two-dimensional vortex system **198**, 371
Krajewski, J.J., see R.J. Cava **198**, 27
Kresin, V.Z. and S.A. Wolf, Induced superconductivity and gapless state in $YBa_2Cu_3O_{7-x}$ **198**, 328
Kumar, R., see L.S. Grigoryan **198**, 137
Kumar, S., see S.B. Roy **198**, 383
Kundrotas, P.J., see V.E. Zubkus **198**, 141

Lam, D.J., see D.E. Ellis **198**, 57
Larbalestier, D.C., see A. Umezawa **198**, 261
Larrea, A., see E. Snoeck **198**, 129
Lebedev, O.I., A.L. Vasiliev, N.A. Kiselev, L.A. Mazo, S.V. Gaponov, D.G. Paveliev and M.D. Strikovsky, Microstructure of edge-type Josephson junction with $PrBa_2Cu_3O_{7-x}$ barrier layer **198**, 278
Liu, J.R., see Y.J. Zhao **198**, 256
Liu, R., S.F. Hu, D.A. Jefferson and P.P. Edwards, Superconductivity at 124 K in $(Tl,Pb)Sr_2Ca_2Cu_3O_9$ **198**, 318
Liu, R.S., S.D. Hughes, R.J. Angel, T.P. Hackwell, A.P. Mackenzie and P.P. Edwards, Crystal structure and cation stoichiometry of superconducting $Tl_2Ba_2CuO_{6+\delta}$ single crystals **198**, 203
Loktev, V.M., see M.A. Ivanov **198**, 171
Lösch, S., see A. Ehmann **198**, 1
Lowndes, D.H., see W.E. Carlos **198**, 247
Lu, S.W., see M.-J. Tsai **198**, 125

Mackenzie, A.P., see R.S. Liu **198**, 203
Malik, S.K., see L.S. Grigoryan **198**, 137
Matsuishi, K., see Q. Xiong **198**, 70
Matsumoto, T., T. Kawai, K. Kitahama and S. Kawai, Tunneling spectra of a $Bi_2Sr_2CaCu_2O_8$ single crystal with

well defined $Bi_2Sr_2CuO_6$ artificial barrier **198**, 273
Maxwell, K.J., see A.A. El-Abbar **198**, 81
Mazo, L.A., see O.I. Lebedev **198**, 278
Meng, R.L., see Y.J. Zhao **198**, 256
Mercey, B., see J.F. Hamet **198**, 293
Meshkov, S.V., see S.I. Vedeneev **198**, 47
Misture, S.T., see B.-J. Chen **198**, 118
Mittag, M., M. Rosenberg, A.V. Niculescu, B. Himmerich and H. Sabrowsky, Study of magnetic relaxation processes in ceramic Tl-2223 high-T_c superconductors **198**, 222
Miyazaki, Y., H. Yamane, N. Ohnishi, T. Kajitani, K. Hiraga, Y. Morii, S. Funahashi and T. Hirai, The crystal structure of $(C_{0.4}Cu_{0.6})Sr_2(Y_{0.86}Sr_{0.14})Cu_2O_7$ **198**, 7
Miyazaki, Y., H. Yamane and T. Hirai, Preparation of a new compound, $Y_{2.0}Sr_{5.0}Cu_{6.0}C_{0.9}O_{16.2}$ **198**, 53
Moodenbaugh, A.R., R.L. Sabatini, Y. Xu, J. Ochab and J.G. Huber, Solubility of Ca in superconducting $La_{2-x}Ca_xCuO_4$ **198**, 103
Morii, Y., see Y. Miyazaki **198**, 7
Müller, D., see M. Ullrich **198**, 181
Müller-Vogt, G., see H. Claus **198**, 42

Nagoshi, M., see D. Pooke **198**, 349
Niculescu, A.V., see M. Mittag **198**, 222
Niel, L., see M. Ullrich **198**, 181
Nissel, T., see A. Ehmann **198**, 1
Norton, D.P., see W.E. Carlos **198**, 247
Nowik, I., see I. Felner **198**, 14

Ochab, J., see A.R. Moodenbaugh **198**, 103
O'Connor, M., see S.R. Su **198**, 95
Ogawa, R., see Y. Ueda **198**, 237
Ohnishi, N., see Y. Miyazaki **198**, 7
Ono, A., High-pressure synthesis of perovskite-derived compounds in the Sr–Y–Cu–O system **198**, 287
Ōnuki, Y., see H. Aoki **198**, 323
Ott, K.C., see K.V. Salazar **198**, 303
Owers-Bradley, J.R., see A.A. El-Abbar **198**, 81

Parfionov, O.E., see V.E. Zubkus **198**, 141
Paveliev, D.G., see O.I. Lebedev **198**, 278
Peck Jr., W.F., see R.J. Cava **198**, 27
Peterson, E.J., see K.V. Salazar **198**, 303
Pogorelov, Y.G., see M.A. Ivanov **198**, 171
Pooke, D., K. Kishio, T. Koga, Y. Fukuda, N. Sanada, M. Nagoshi, K. Kitazawa and K. Yamafuji, Charge transfer associated with iodine intercalation in $Bi_2Sr_2Ca_{n-1}Cu_nO_y$, $n=1$–3 **198**, 349
Poullain, G., see J.F. Hamet **198**, 293
Prasad, R., see S.B. Roy **198**, 383

Ranninger, J., see A.S. Alexandrov **198**, 360
Rauch, W., H. Behner, G. Gieres, G. Sölkner, F. Fox, A.A. Valenzuela and E. Gornik, DC-magnetron sputtering of $YBa_2Cu_3O_{7-\delta}$ thin films for microwave applications **198**, 389
Raveau, B., see J.F. Hamet **198**, 293
Rehspringer, J.L., see A. Tighezza **198**, 209
Rodriguez, M.A., see B.-J. Chen **198**, 118
Röhberg, K., see H. Claus **198**, 42
Rosenberg, M., see M. Mittag **198**, 222
Rossoni, P.G., see S.R. Su **198**, 95
Roucau, C., see E. Snoeck **198**, 129
Roy, S.B., S. Kumar, P. Chaddah, R. Prasad and N.C. Soni, Magnetic field dependence of the harmonic generation in sintered pellets of YBaCuO. The history effects **198**, 383
Roys, W.B., see A.A. El-Abbar **198**, 81
Runtsch, B., see H. Claus **198**, 42

Sabatini, R.L., see A.R. Moodenbaugh **198**, 103
Sabrowsky, H., see M. Mittag **198**, 222
Salazar, K.V., K.C. Ott, R.C. Dye, K.M. Hubbard, E.J. Peterson, J.Y. Coulter and T.T. Kodas, Aerosol assisted chemical vapor deposition of superconducting $YBa_2Cu_3O_{7-x}$ **198**, 303
Samuely, P., see S.I. Vedeneev **198**, 47
Sanada, N., see D. Pooke **198**, 349
Schlichenmaier, M., see A. Ehmann **198**, 1
Schlichenmaier, M. and S. Kemmler-Sack, Ar preparation of Pb rich 2212 superconductors in the BPSCCO system **198**, 175
Scholtz, J.J., E.N. van Eenige, R.J. Wijngaarden, R. Griessen and D.M. de Leeuw, Pressure dependence of T_c and H_{c2} of $CaLaBaCu_3O_7$ up to 50 GPa **198**, 231
Schuhl, A., see B. Ghyselen **198**, 215
Schweib, P., see H. Claus **198**, 42
Shibutani, K., see Y. Ueda **198**, 237
Shimizu, T., see H. Aoki **198**, 323
Shubnii, G., see A. Zherikhin **198**, 341
Snoeck, E., A. Larrea, C. Roucau, G.F. de la Fuente and Y. Huang, Microstructure of (Bi,Pb)–Sr–Ca–Cu–O fibres. Study by electron microscopy **198**, 129
Snyder, R.L., see B.-J. Chen **198**, 118
Sobol, E., see A. Zherikhin **198**, 341
Sölkner, G., see W. Rauch **198**, 389
Soni, N.C., see S.B. Roy **198**, 383
Strikovsky, M.D., see O.I. Lebedev **198**, 278
Su, S.R., M. O'Connor and P.G. Rossoni, Synthesis of the 110 K phase $(BiPb)_2Sr_2Ca_2Cu_3O_x$ material by a seeding technique **198**, 95
Sun, Y.R., see H.R. Kerchner **198**, 75
Sun, Y.Y., see Q. Xiong **198**, 70
Sung, Y.S., see A. Umezawa **198**, 261
Sviridov, A., see A. Zherikhin **198**, 341

Tetenbaum, M., P. Tumidajski, D.L. Brown and M. Blander, Some aspects of the thermodynamic behavior of high-T_c oxide systems via EMF and related measurements **198**, 109
Thompson, J.R., see H.R. Kerchner **198**, 75
Thomson, J.O., see H.R. Kerchner **198**, 75
Tiefel, T.H., see S. Jin **198**, 333
Tighezza, A., J.L. Rehspringer and M. Drillon, The oxyfluoride

$Nd_2CuO_{4-x}F_x$. Influence of synthesis routes on the superconducting properties **198**, 209
Tornau, E.E., see V.E. Zubkus **198**, 141
Tressaud, A., see J.M. Dance **198**, 185
Tsai, M.-J., S.F. Wu, Y.T. Huang and S.W. Lu, Rapid processing of Tl–Ba–Ca–Cu–O 2223 phase with $T_c = 127$ K **198**, 125
Tsukamoto, A., M. Hiratani and J. Amano, Partial substitution of Ba^{2+} for Ho in the $Ho_{1+y}Ba_{2-y}Cu_3O_x$ thin films grown at low temperature **198**, 355
Tumidajski, P., see M. Tetenbaum **198**, 109
Tyc, S., see B. Ghyselen **198**, 215

Ueda, Y., Y. Fujiwara, A. Hayashi, K. Shibutani and R. Ogawa, Structural and superconducting properties of oxygenated $La_{2-x}M_xCuO_{4+y}$ ($M = Sr,Ba; 0 \leqq x < 0.1$) **198**, 237
Uji, S., see H. Aoki **198**, 323
Ullrich, M., D. Müller, K. Heinemann, L. Niel and H.C. Freyhardt, Microsctructure and superconducting properties of Bridgman-melt-textured $Y_1Ba_2Cu_3O_{7-\delta}$ **198**, 181
Umezawa, A., Y. Feng, H.S. Edelman, Y.E. High, D.C. Larbalestier, Y.S. Sung, E.E. Hellstrom and S. Fleshler, Electromagnetic granularity, critical current density, and low T_c phase formation at the grain boundaries in $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ silver-sheathed tapes **198**, 261

V. Löhneysen, H., see H. Claus **198**, 42
Valenzuela, A.A., see W. Rauch **198**, 389
Van Dover, R.B., see R.J. Cava **198**, 27
Van Eenige, E.N., see J.J. Scholtz **198**, 231
Vareka, W.A., see N. Kijima **198**, 309
Vasiliev, A.L., see O.I. Lebedev **198**, 278
Vedeneev, S.I., P. Samuely, S.V. Meshkov, G.M. Eliashberg, A.G.M. Jansen and P. Wyder, Coherent one-particle excitation spectrum and strong-coupling features in the tunneling conductance with the high-T_c superconductor $Bi_2Sr_2CaCu_2O_x$ **198**, 47
Vijayaraghavan, R., see L.S. Grigoryan **198**, 137

Wang, Y.Q., see Q. Xiong **198**, 70
Wijngaarden, R.J., see J.J. Scholtz **198**, 231
Wischert, W., see A. Ehmann **198**, 1
Wojakowski, A., see Z. Henkie **198**, 162
Wolf, S.A., see V.Z. Kresin **198**, 328
Wu, S.F., see M.-J. Tsai **198**, 125
Wühl, H., see H. Claus **198**, 42
Wyder, P., see S.I. Vedeneev **198**, 47
Wysokiński, K.I., "Correlated hopping" model of superconductivity. Effect of impurities **198**, 87

Xiang, X.-D., see N. Kijima **198**, 309
Xiong, Q., Y.Q. Wang, J.W. Chu, Y.Y. Sun, K. Matsuishi, H.H. Feng, P.H. Hor and C.W. Chu, High-pressure study on Mo-stabilized Sr-based 123 compounds. $YSr_2Cu_{2.8}Mo_{0.2}O_y$ and $TbSr_2Cu_{2.7}Mo_{0.3}O_y$ **198**, 70
Xu, Y., see A.R. Moodenbaugh **198**, 103

Yamafuji, K., see D. Pooke **198**, 349
Yamane, H., see Y. Miyazaki **198**, 7
Yamane, H., see Y. Miyazaki **198**, 53
Yan, Y. and M.G. Blanchin, Direct imaging of the oxygen sublattice in thin crystals of orthorhombic $YBa_2Cu_3O_{7-x}$ superconductors observed by HREM at 400 kV **198**, 147
Yaron, U., see I. Felner **198**, 14

Zandbergen, H.W., see R.J. Cava **198**, 27
Zettl, A., see N. Kijima **198**, 309
Zhang, L.-Y. and Y.S. Zhou, On the combination of the Cooper pair and the Ogg pair in the high-T_c oxide superconductor **198**, 378
Zhao, Y.J., J.R. Liu, R.L. Meng and W.K. Chu, Thermal neutron irradiation of ^6Li doped $Y_1Ba_2Cu_3O_{7-\delta}$ and flux pinning enhancement **198**, 256
Zherikhin, A., V. Bagratashvili, V. Burimov, E. Sobol, G. Shubnii and A. Sviridov, The action of powerful laser radiation on 1-2-3 superconducting thin films and bulk materials **198**, 341
Zhou, Y.S., see L.-Y. Zhang **198**, 378
Zoller, P., see A. Ehmann **198**, 1
Zubkus, V.E., O.E. Parfionov, E.E. Tornau and P.J. Kundrotas, Asymmetry of phase diagram and influençe of oxygen ordering on holes pairing in $YBa_2Cu_3O_{6+x}$ **198**, 141

Physica C198 (1992) 401–402
North-Holland

PHYSICA C

Analytic Subject Index to Volume 198

AC susceptibility 81
Angle resolved photoemission 360
Anisotropic superconductor 215, 293, 309
Antiferromagnetic order 14

Band structure
–in $Bi_2Sr_2Ca_2Cu_3O_{10}$ 378
BCS model 47, 273, 360, 378
Benzene 137
Bi-oxides 137
Bipolaronic superconductivity 360, 378

Calculation 57
Cation stoichiometry 203, 355
Cluster model 57
Computer simulation 371
Correlated-hopping model 87
Critical current density 256, 389
–in $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ 261
–in $YBa_2Cu_3O_{7-x}$ 303
Critical phenomena 75
Cu–O chains 70, 171
–in $YBa_2Cu_3O_{7-x}$ 328
Cu–O planes 147
–in $Bi_2Sr_2Ca_{n-1}Cu_nO_y$ (n=1–3) 349
–in $YBa_2Cu_3O_{7-x}$ 328
Cu-valence 7
–in $La_2CuO_{4\text{-}related}$ materials 185

Defect structures 57, 171, 371
–in $PrBa_2Cu_3O_{7-x}$ 278
De Haas–van Alphen effect
–in $NbSe_2$ and $YBa_2Cu_3O_7$ 323
Diamagnetic transitions 261, 349
DTA 95
Dy-'184' 19

Electrical resistivity 75, 237
–in $Tl_2Ba_2Ca_2Cu_3O_{10-\delta}$ 125
–of $(Bi,Pb)_2Sr_2CaCu_2O_{8+z}$ 175
–of $Bi_8Sr_{8-x}Ca_{4+x}Cu_9O_{33+}E-\delta$ 162
–of $YBa_2Cu_3O_{6+x}$ 141
–of Y–Sr–Cu–C–O 53
Electromagnetic granularity
–in $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ 261
Electron-doped superconductor 109
Electronic structure 171
Electron–phonon coupling 47, 360
Energy gap 33, 87, 328, 378
Epitaxial junction 273
ESR 171
–in $La_2CuO_{4\text{-}related}$ materials 185

Fermi surface 349
Fibres 129
Flux creep 81, 222
Flux lattice 383
Flux pinning 181, 371
–in $Y_1Ba_2Cu_3O_{7-\delta}$ 256

Gapless superconductor 42
Glassy state 81, 222
Grain alignment 181
Grain boundaries 333
–in $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ 261
–in $PrBa_2Cu_3O_{7-x}$ 278
Green's function 360

Hall effect 349
–in $YBa_2Cu_3O_{6+x}$ 141
Halogenation
–of $La_2CuO_{4\text{-}related}$ materials 185
Harmonic generation 383
High pressure effect 70, 103, 287
–in $CaLaBaCu_3O_7$ 231
HREM 7, 27, 261, 278, 309
–thin crystals of $YBa_2Cu_3O_{7-x}$ 147

Improvement of T_c 318
Induced superconductivity 328
Intercalation 137
Intercation 137
Iodine intercalation
–in $Bi_2Sr_2Ca_{n-1}Cu_nO_y$ (n=1–3) 349
Ionic size effects 109
Iron doping 57
Irreversibility line 81
Isomer shift 57

Josephson effect 215
–in $PrBa_2Cu_3O_{7-x}$ 278

Kinetics 118
Kosterlitz–Thouless transition 75

Laser annealing 341
Ln-'184' phase 19
Ln-'184' region 19
Ln–Ba–Cu–O systems 19
Low dimensional systems 371

Magnetic flux penetration 247
Magnetic relaxation
–in $Tl_2Ba_2Ca_2Cu_3O_x$ 222
Magnetic susceptibility 14, 237, 287
–in $Tl_2Ba_2Ca_2Cu_3O_{10-\delta}$ 125
–of $(Bi,Cu)Sr_2YCu_2O_{7-\delta}$ 1
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ 261
–of $(Bi,Pb)_2Sr_2CaCu_2O_{8+z}$ 175
–of $(BiPb)2Sr_2Ca_2Cu_3O_x$ 95
–of $Nd_2CuO_{4-x}F_x$ 209
–of $YBa_2Cu_3O_{6+x}$ 171
–of $YBa_2Cu_3O_7$ 383
Magnetization
–of Bi oxides 137
–of $Y_1Ba_2Cu_3O_{7-\delta}$ 181
Microstructure 129
–in Bi–Si–Ca–Cu–O 333
–in Y–Ba–Cu–O 333
Microwave absorption
–in $PrBa_2Cu_3O_{7-\delta}$ 247
–in $YBa_2Cu_3O_{7-\delta}$ 247
Modulated structures 129
–in Bi–Pb–Sr–Ca–Cu–O 175
Mössbauer spectroscopy 14, 57
Multilayers 75, 389

NIS junction 273

Over doping 42
Oxygen diffusion 147
Oxygen ordering 141
Oxygen stoichiometry 27, 162
–in $La_{2-x}MxCuO_{4+y}$ (M = Sr,Ba) 237
–in $LnBa_2Cu_3O_x$ 109
–in $(Tl,Pb)Sr_2Ca_2Cu_3O_9$ 318
–in $YBa_2Cu_3O_{7-\delta}$ 42

Pair breaking 87
Penetration depth 389
Phase compatibilities 19
Phase diagram 237
–of $(La,Ca)_2CuO_4$ 103
–of Y–Ba–Cu–O 141
Polaronic superconductivity 360
Proximity effect 215

Raman scattering 33

Scanning electron microscopy 1, 95, 103, 125, 129
Single-crystal growth 203
–of $Bi_2Sr_2CaCu_2O_8$ 273
Solid solubility limits for Ln = Ho 19
Solubility
–of Ca in La_2CuO_4 103
Specific heat, at T_c 42
Stability
–of $TbSr_2(Cu,Mo)_3O_y$ 70
–of $YSr_2(Cu,Mo)_3O_y$ 70
Strong-coupling effects
–in $Bi_2Sr_2CaCu_2O_x$ 47
Structural phase transition 109
Structure 19
–of $(Bi,Cu)Sr_2YCu_2O_{7-\delta}$ 1
–of $(Bi,Pb)_2Sr_2CaCu_2O_{8+z}$ 175
–of $(BiPb)2Sr_2Ca_2Cu_3O_x$ 95
–of $(C_{0.4}Cu_{0.6})Sr_2(Y_{0.86}Sr_{0.14})Cu_2O_7$ 7
–of $CaLaBaCu_3O_7$ 231
–of $I(Bi_{0.915},Pb_{0.085})_2(Sr_{0.93},Pb_{0.07})_2(Ca_{0.965},Pb_{0.035})_2Cu_3O_x$ 309
–of $(La,M)_2CuO_{4+y}$ (M = Sr,Ba) 237
–of $Nd_2CuO_{4-x}F_x$ 209
–of $Sr_2(Nd,Ce)_2MCu_2O_9$ (M=Al,Co,Ga) 27
–of $Sr_{3.5}Y_{1.5}Cu_3O_z$ 287
–of $Sr_4Y_3Cu_4O_{14}$ 287
–of $Sr_8Cu_8O_z$ 287
–of $Tl_{1.85}(4)Ba_{1.94}(4)Cu_{1.15}(2)O_{6+\delta}$ 203
–of $Tl_2Ba_2Ca_2Cu_3O_{10-\delta}$ 125
–of $Y_{2.0}Sr_{5.0}Cu_{6.0}C_{0.9}O_{16.2}$ 53
Substitution effects 162
–in $Bi_2Sr_2Ca(Cu_{1-y}Co_y)_2O_{8+\delta}$ 33
–in $Ho_{1+y}Ba_{2-y}Cu_3O_x$ 355
Substitution of F
–in $Nd_2CuO_{4-x}F_x$ 209
Superlattices
–of $YBa_2Cu_3O_{7-\delta}$ 247
Superstructure 7
Surface impedance 75, 389
Synthesis
–of $(Bi,Pb)_2Sr_2CaCu_2O_{8+z}$ 175
–of $(BiPb)2Sr_2Ca_2Cu_3O_x$ 95
–of $Nd_2CuO_{4-x}F_x$ 209
–of $Sr_2(Nd,Ce)_2MCu_2O_9$ (M=Al,Co,Ga) 27
–of $Sr_{3.5}Y_{1.5}Cu_3O_z$ 287
–of $Sr_4Y_3Cu_4O_{14}$ 287
–of $Sr_8Cu_8O_z$ 287
–of thin films 389
–of $Tl_{0.5}Pb_{0.5}Sr_2Ca_2Cu_3O_9$ 318
–of $Tl_2Ba_2Ca_2Cu_3O_{10-\delta}$ 125
–of $Y_{2.0}Sr_{5.0}Cu_{6.0}C_{0.9}O_{16.2}$ 53
–of $YBa_2Cu_3O_{7-\delta}$ 293, 341, 389
–of $YBa_2Cu_3O_{7-x}$ 303
Synthesis mechanism 19

TEM 181
Texture 333
Texturing
–in $YBa_2Cu_3O_{7-\delta}$ 118
Thermal neutron irradation 256
Thermoelectric effects 162
Thin films 75, 247
–of $Ho_{1+y}Ba_{2-y}Cu_3O_x$ 355
–of $PrBa_2Cu_3O_{7-x}$ 278
–of $YBa_2Cu_3O_{7-\delta}$ 341, 389
–of $YBa_2Cu_3O_{7-x}$ 303
–of Y–Ba–Cu–O 293
–oriented 293
Tunneling 47, 87
–in $Bi_2Sr_2CaCu_2O_8$ 273
Tunneling spectroscopy 33
Type II superconductors 256, 323

Upper critical field H_{c2} 323
–of $CaLaBaCu_3O_7$ 231

Vacuum annealing 318
Vortex glass 81

Weak links 215, 333
–in $YBa_2Cu_3O_7$ 383
–in $YBa_2Cu_3O_{7-\delta}$ 389

X-ray diffraction 118

Physica C198 (1992) 403
North-Holland

PHYSICA C

Materials Index to Volume 198

$(Bi,Cu)Sr_2YCu_2O_{7-\delta}$
–magnetic susceptibility 1
–structure 1
$(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$
–critical current density 261
–electromagnetic granularity 261
–grain boundaries 261
–magnetic susceptibility 261
$(Bi,Pb)_2Sr_2CaCu_2O_{8+z}$
–electrical resistivity 175
–magnetic susceptibility 175
–structure 175
–synthesis 175
$Bi_2Sr_2Ca_2Cu_3O_{10}$
–band structure 378
$Bi_2Sr_2Ca(Cu_{1-y}Co_y)_2O_{8+\delta}$
–substitution effects 33
$Bi_2Sr_2CaCu_2O_8$
–single-crystal growth 273
–tunneling 273
$Bi_2Sr_2CaCu_2O_x$
–strong-coupling effects 47
$Bi_2Sr_2Ca_{n-1}Cu_nO_y$
–Cu–O planes 349
–iodine intercalation 349
$Bi_8Sr_{8-x}Ca_{4+x}Cu_9O_{33+}E-\delta$
–electrical resistivity 162
$(BiPb)2Sr_2Ca_2Cu_3O_x$
–magnetic susceptibility 95
–structure 95
–synthesis 95
Bi–Pb–Sr–Ca–Cu–O
–modulated structures 175
Bi–Si–Ca–Cu–O
–microstructure 333

$(C_{0.4}Cu_{0.6})Sr_2(Y_{0.86}Sr_{0.14})Cu_2O_7$
–structure 7
$CaLaBaCu_3O_7$
–high pressure effect 231
–structure 231
–upper critical field H_{c2} 231

$Ho_{1+y}Ba_{2-y}Cu_3O_x$
–substitution effects 355
–thin films 355

$I(Bi_{0.915},Pb_{0.085})_2(Sr_{0.93},Pb_{0.07})_2$
$(Ca_{0.965},Pb_{0.035})_2Cu_3O_x$
–structure 309

$(La,Ca)_2CuO_4$
–phase diagram 103
$(La,M)_2CuO_{4+y}$
–structure 237
La_2CuO_4
–solubility 103
$La_2CuO_{4\text{-}related}$
–Cu-valence 185
–ESR 185
–halogenation 185
$La_{2-x}MxCuO_{4+y}$
–oxygen stoichiometry 237
$LnBa_2Cu_3O_x$
–oxygen stoichiometry 109

$NbSe_2$
–De Haas–van Alphen effect 323
$Nd_2CuO_{4-x}F_x$
–magnetic susceptibility 209
–structure 209
–substitution of F 209
–synthesis 209

$PrBa_2Cu_3O_{7-\delta}$
–microwave absorption 247
$PrBa_2Cu_3O_{7-x}$
–defect structures 278
–grain boundaries 278
–Josephson effect 278
–thin films 278

$Sr_2(Nd,Ce)_2MCu_2O_9$
–structure 27
–synthesis 27
$Sr_{3.5}Y_{1.5}Cu_3O_z$
–structure 287
–synthesis 287
$Sr_4Y_3Cu_4O_{14}$
–structure 287
–synthesis 287
$Sr_8Cu_8O_z$
–structure 287
–synthesis 287

$TbSr_2(Cu,Mo)_3O_y$
–stability 70
$(Tl,Pb)Sr_2Ca_2Cu_3O_9$
–oxygen stoichiometry 318
$Tl_{0.5}Pb_{0.5}Sr_2Ca_2Cu_3O_9$
–synthesis 318
$Tl_{1.85}(4)Ba_{1.94}(4)Cu_{1.15}(2)O_{6+\delta}$
–structure 203
$Tl_2Ba_2Ca_2Cu_3O_{10-\delta}$
–electrical resistivity 125
–magnetic susceptibility 125
–structure 125
–synthesis 125
$Tl_2Ba_2Ca_2Cu_3O_x$
–magnetic relaxation 222

$Y_1Ba_2Cu_3O_{7-\delta}$
–flux pinning 256
–magnetization 181
$Y_{2.0}Sr_{5.0}Cu_{6.0}C_{0.9}O_{16.2}$
–structure 53
–synthesis 53
$YBa_2Cu_3O_{6+x}$
–electrical resistivity 141
–Hall effect 141
–magnetic susceptibility 171
$YBa_2Cu_3O_7$
–magnetic susceptibility 383
–weak links 383
$YBa_2Cu_3O_{7-\delta}$
–microwave absorption 247
–oxygen stoichiometry 42
–superlattices 247
–synthesis 293, 341, 389
–texturing 118
–thin films 341, 389
–weak links 389
$YBa_2Cu_3O_{7-x}$
–critical current density 303
–Cu–O chains 328
–Cu–O planes 328
–HREM 147
–synthesis 303
–thin films 303
Y–Ba–Cu–O
–microstructure 333
–phase diagram 141
–thin films 293
$YSr_2(Cu,Mo)_3O_y$
–stability 70
Y–Sr–Cu–C–O
–electrical resistivity 53